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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

ATTORNEY'S DOCKET NUMBER 60290-USA

CON	CERNING A SUBMISSION UNDER 35 U.S.C. 371	U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/534,279			
	TIONAL APPLICATION NO. INTERNATIONAL FILING DATE 10 November 2003 (10.11.2003)	PRIORITY DATE CLAIMED			
	TITLE OF INVENTION Lepidoptera Voltage-Gated Calcium Channels				
APPLICAN	IT(S) FOR DO/EO/US WU, Shilan, et al.				
		2/10/4-5-11			
	herewith submits to the United States Designated/Elected Office (DO/E	· · · · · · · · · · · · · · · · · · ·			
- T	This is a FIRST submission of items concerning a submission under 35 U.S.C. 37				
2. 🔼 1	This is a SECOND or SUBSEQUENT submission of items concerning a submission	n under 35 U.S.C. 371.			
	This is an express request to begin national examination procedures (35 U.S.C. 37 (5), (6), (9) and (21) indicated below.	(1(f)). The submission must include items			
4.	The US has been elected (Article 31).				
5.	A copy of the International Application as filed (35 U.S.C. 371(c)(2))				
	a. is attached hereto (required only if not communicated by the Internatio	nal Bureau).			
	b. has been communicated by the International Bureau.				
	c. is not required, as the application was filed in the United States Received	ing Office (RO/US).			
6.	An English language translation of the International Application as filed (35 U.S.	C. 371(c)(2)).			
	a. is attached hereto.				
	b. has been previously submitted under 35 U.S.C. 154(d)(4).				
7.	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))				
	a. are attached hereto (required only if not communicated by the International Bureau).				
	b. have been communicated by the International Bureau.				
	c. have not been made; however, the time limit for making such amend	nents has NOT expired.			
_	d. have not been made and will not be made.				
8. 🔲	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).				
9. X	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).				
10.	An English language translation of the annexes of the International Preliminary 8 Article 36 (35 U.S.C. 371(c)(5)).	examination Report under PCT			
Items	11 to 20 below concern document(s) or information included:				
11. 🔲	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.				
12.	An assignment document for recording. A separate cover sheet in compliance w	ith 37 CFR 3.28 and 3.31 is included.			
13. X	A preliminary amendment.				
14. 🔲	An Application Data Sheet under 37 CFR 1.76.				
15.	A substitute specification.				
16.	A power of attorney and/or change of address letter.				
17. 🛚	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.				
18.	A second copy of the published International Application under 35 U.S.C. 154(d)(4).			
19.	A second copy of the English language translation of the international application	n under 35 U.S.C. 154(d)(4).			

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 3



PTO-1390 (Rev. 07-2005)
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	U.S. APPLICA	5. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. 10/534,279 PCT/US2003/036001		ATTORNEY'S DOCKET NUMBER 60290-USA			
	20. Other items or information: Copy of 371 Formalities Letter; Petition for Two Months Extension of T Support, Paper Copy of Sequence Listing (69 pgs.); CRF; postcard				ime (in duplicate), Statement to		
	The foll	lowing fees have b	een submitted			CALCULATIONS	PTO USE ONLY
		_		•••••	\$300	\$	
	22.	mination fee (37 Cf	R 1.492(c))				
	If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0 All other situations				\$		
					\$		
		TOTAL OF 21, 22	2 and 23 =			0.00	
	Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.						
	Total Sheets	Extra Sheets		additional 50 or fraction up to a whole number)	RATE		
	- 100 =	/50 =			× \$250	\$ 0.00	1
	Surcharge of \$13 after the date of	curcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration feer the date of commencement of the national stage (37 CFR 1.492(h)). CLAIMS NUMBER FILED NUMBER EXTRA RATE		\$ 130.00			
	CLAIMS			RATE	\$	•	
	Total claims		- 20 =		x \$50	\$	
	Independent clai	ms	- 3 =		× \$200	\$	
	MULTIPLE DEPI	MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360				\$ 0.00	
					CALCULATIONS =	\$ 130.00	
	Applicant cla	aims small entity st	atus. See 37 CF	R 1.27. Fees above are reduc	ed by ½.	0.00	· · · · · · · · · · · · · · · · · · ·
				SUBTOTAL =	\$ 130.00		
	Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$	0.00	
	TOTAL NATIONAL FEE =					\$	130.00
	Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + TOTAL FEES ENCLOSED =				\$	0.00	
<u>2</u> 00(EES ENCLOSED =	\$	130.00
161	130,00			Ext.	Fee	XAYASIXAY XOXDYE XAYUYAZIXAX	\$ 450.00
				Tota	al	AMMANH XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	\$ 580.00



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а. 🗌	A check in the amount of \$ to cover the above fees is enclosed.				
b. X	Please charge my Deposit Account No. $\underline{06-1440}$ in the amount of \$ $\underline{130.00}$ to cover the above fees. A duplicate copy of this sheet is enclosed.				
c. X	The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-1440. A duplicate copy of this sheet is enclosed.				
d. 🔲	Fees are to be charged to a credit card. WARNING : Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.				
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.					
John M FMC 1735 I	LL CORRESPONDENCE TO: M. Sheehan Corporation Market Street John M. Sheehan NAME Jelphia, PA 19103 26,065 REGISTRATION NUMBER				

88/25/2886 BCAMPBEL 98688882 861449 18534279 258.88 DA 81 FC:1681







United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS PO DEX 1450 Alexandria, Viginia 22313-1450

U.S. APPLICATION NUMBER NO.	FIRST NAMED APPLICANT		Y. DOCKET NO.		
10/534,279	Shilan Wow DEPT. FMC Philadelphia	60290-USA			
,	Fill Philadelpha	INTERNATIONAL APPLICATION NO.			
	DEC 2 7 200	PCT/US03/36001			
Patent Administrator		I.A. FILING DATE	PRIORITY DATE		
FMC Corporation		11/10/2003	11/08/2002		
1735 Market Street	RECEIVED		44		
Philadelphia, PA 19103		CONFIRM	ATION NO. 1127		
	371 FORMALITIES LETTER				
	00	000000017678712	Will die		

Date Mailed: 12/21/2005

NOTIFICATION OF MISSING REQUIREMENTS UNDER 35 U.S.C. 371 IN THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

The following items have been submitted by the applicant or the IB to the United States Patent and Trademark Office as a Designated / Elected Office (37 CFR 1.495).

- Copy of the International Application filed on 05/06/2005
- Copy of the International Search Report filed on 05/06/2005
- Oath or Declaration filed on 05/06/2005
- Request for Immediate Examination filed on 05/06/2005
- U.S. Basic National Fees filed on 05/06/2005
- Priority Documents filed on 05/06/2005
- Specification filed on 05/06/2005
- Claims filed on 05/06/2005
- Abstracts filed on 05/06/2005
- Drawings filed on 05/06/2005
- Paper nucleotide sequence listings filed on 05/06/2005

The applicant needs to satisfy supplemental fees problems indicated below.

The following items **MUST** be furnished within the period set forth below in order to complete the requirements for acceptance under 35 U.S.C. 371:

- Oath or declaration of the inventors, in compliance with 37 CFR 1.497(a) and (b), identifying the application by the International application number and international filing date. The current oath or declaration does not comply with 37 CFR 1.497(a) and (b) in that it:
 - is not executed in accordance with either 37 CFR 1.66 or 37 CFR 1.68.
- To avoid abandonment, a surcharge (for late submission of filing fee, search fee, examination fee or oath
 or declaration) as set forth in 37 CFR 1.492(h) of \$130 for a non-small entity, must be submitted with the
 missing items identified in this letter.

SUMMARY OF FEES DUE:

Total additional fees required for this application is \$130 for a Large Entity:

• \$130 Surcharge.

- This application clearly fails to comply with the requirements of 37 CFR. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000). Applicant must provide an initial computer readable form (CRF) copy of the "Sequence Listing", an initial paper or compact disc copy of the "Sequence Listing", as well as an amendment specifically directing its entry into the application. Applicant must also provide a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825 (d). If applicant desires the sequence listing in the instant application to be identical with that of another application on file in the U.S. Patent and Trademark Office, such request in accordance with 37 CFR 1.821 (e) may be submitted in lieu of a new CRF.
- A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CFR 1.821(e). If the effective filing date is on or after September 8, 2000, see the final rulemaking notice published in the Federal Register at 65 FR 54604 (September 8, 2000) and 1238 OG 145 (September 19, 2000). Applicant must provide an initial computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d). If applicant desires the sequence listing in the instant application to be identical with that of another application on file in the U.S. Patent and Trademark Office, such request in accordance with 37 CFR 1.821(e) may be submitted in lieu of a new CRF.

Applicant is cautioned that correction of the above items may cause the specification and drawings page count to exceed 100 pages. If the specification and drawings exceed 100 pages, applicant will need to submit the required application size fee.

For questions regarding compliance to 37 CFR 1.821-1.825 requirements, please contact:

- For Rules Interpretation, call (571) 272-0951
- For Patentin Software Program Help, call Patent EBC at 1-866-217-9197 or directly at 703-305-3028 / 703-308-6845 between the hours of 6 a.m. and 12 midnight, Monday through Friday, EST.
- Send e-mail correspondence for Patentin Software Program Help @ ebc@uspto.gov

ALL OF THE ITEMS SET FORTH ABOVE MUST BE SUBMITTED WITHIN TWO (2) MONTHS FROM THE DATE OF THIS NOTICE OR BY 32 MONTHS FROM THE PRIORITY DATE FOR THE APPLICATION, WHICHEVER IS LATER. FAILURE TO PROPERLY RESPOND WILL RESULT IN ABANDONMENT.

The time period set above may be extended by filing a petition and fee for extension of time under the provisions of 37 CFR 1.136(a).

Applicant is reminded that any communications to the United States Patent and Trademark Office must be mailed to the address given in the heading and include the U.S. application no. shown above (37 CFR 1.5)

A copy of this notice MUST be returned with the response.

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Telephone: (703) 308-9140 EXT 217

PART 1 - ATTORNEY/APPLICANT COPY

U.S. APPLICATION NUMBER NO.	INTERNATIONAL APPLICATION NO.		ATTY, DOCKET NO.
10/534,279	PCT/US03/36001	:	60290-USA

FORM PCT/DO/EO/905 (371 Formalities Notice)